WHAT IS CLAIMED IS:

1. A communication apparatus comprising:

communication means for performing wireless communication by using one of a first mode of performing first communication with a partner apparatus via another apparatus, a second mode of performing second communication with the partner apparatus without not via another apparatus, and a third mode of concurrently performing the first communication and the second communication; and

control means for controlling the first communication and the second communication of the communication means,

wherein when an operation mode of the control means is the third mode, the control means controls the communication means so as to activate a function for the second communication after executing processing to establish a connection for the first communication, and when the connection has not been established even after a predetermined time has elapsed since the start of connection processing for the first communication, the control means controls the communication means so as to activate the function for the second communication even if the connection for the first communication has not been established, and

wherein the predetermined time is set shorter than a time that is for establishing a connection for the first communication in the first mode and that is

from the start of processing in the first mode to a timeout at which this processing ends without having established the connection for the first communication by this processing.

2. The apparatus according to claim 1, wherein when the connection for the first communication has not been established after the function for the second communication is activated, the control means further controls the communication means so as to execute again the connection processing for the first communication.

3. The apparatus according to claim 2, wherein when the connection for the first communication has been established after the function for the second communication is activated, the control means controls the communication means changes a wireless channel used in the second communication so as to match a wireless channel used in the first communication.

4. The apparatus according to any one of claims 1 to 3, wherein the wireless communication is wireless communication by a wireless LAN complying with IEEE 802.11 standard series.

5. The apparatus according to claim 4, wherein the first mode is an infrastructure mode of the wireless LAN, and the second mode is a peer-to-peer mode of the wireless LAN.

6. The apparatus according to claim 5, wherein the peer-to-peer mode includes at least one of a Wi-Fi

Direct mode and a software access point mode.

7. The apparatus according to any one of claims 1 to 6, further comprising at least one of print means capable of printing, scan means capable of scanning a document, FAX means capable of transmitting data by FAX, and telephone means that can be used when performing speech communication.

8. The apparatus according to any one of claims 1 to 6, wherein the communication apparatus is a mobile communication apparatus.

9. A control method of a communication apparatus including communication means for performing wireless communication by using at least one of a first mode of performing first communication with a partner apparatus via another apparatus, a second mode of performing second communication with the partner apparatus not via another apparatus, and a third mode of concurrently performing the first communication and the second communication, the communication means being controlled so as to activate a function for the second communication after executing processing to establish a connection for the first communication when an operation mode of the communication means is the third mode, comprising:

controlling the communication means, when the connection has not been established even after a predetermined time has elapsed since the start of

connection processing for the first communication, so as to activate the function for the second communication even if the connection for the first communication has not been established,

wherein the predetermined time is set shorter than a time that is for establishing a connection for the first communication in the first mode and that is from the start of processing in the first mode to a timeout at which this processing ends without having established the connection for the first communication by this processing.

10. A computer-readable storage medium storing a computer program for causing a computer of a communication apparatus including communication means for performing wireless communication by using at least one of a first mode of performing first communication with a partner apparatus via another apparatus, a second mode of performing second communication with the partner apparatus not via another apparatus, and a third mode of concurrently performing the first communication and the second communication, the communication means being controlled so as to activate a function for the second communication after executing processing to establish a connection for the first communication when an operation mode of the communication means is the third mode, to

control the communication means, when the

connection has not been established even after a predetermined time has elapsed since the start of connection processing for the first communication, so as to activate the function for the second communication even if the connection for the first communication has not been established,
wherein the predetermined time is set shorter than a time that is for establishing a connection for the first communication in the first mode and that is from the start of processing in the first mode to a timeout at which this processing ends without having established the connection for the first communication by this processing.